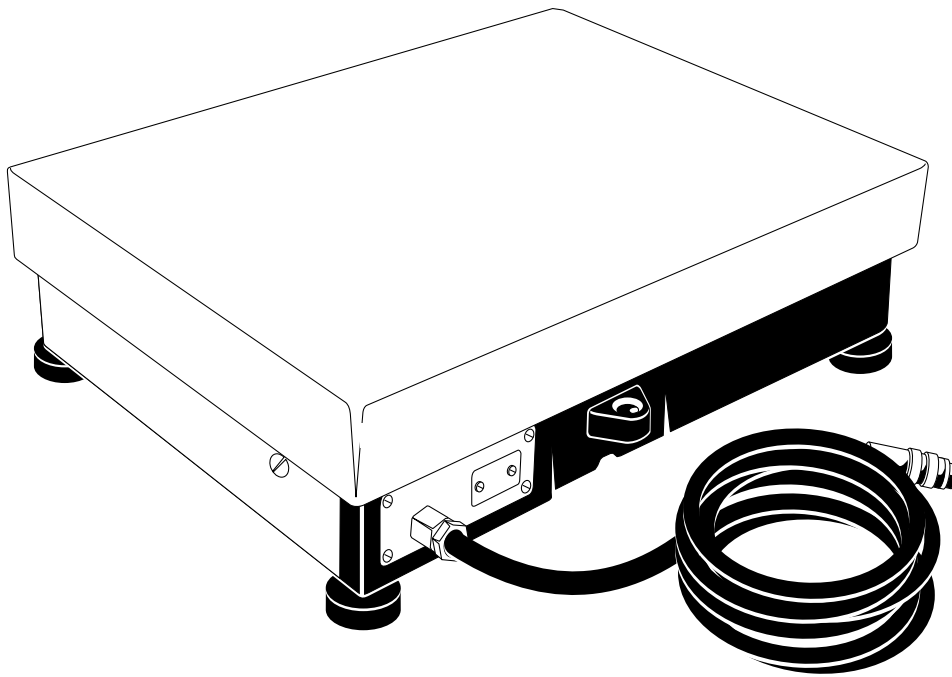


Sartorius

Industrial
Weighing Technology

IS16EDE-H, IS16EDE-H0CE, IS34EDE-H, IS34EDE-H0CE,
IS64EDE-H, IS64EDE-S, IS64EDE-H0CE

Weighing Platform for Display and Control Unit
for Standard Use or Verified for Use in Legal Metrology
Installation and Operating Instructions

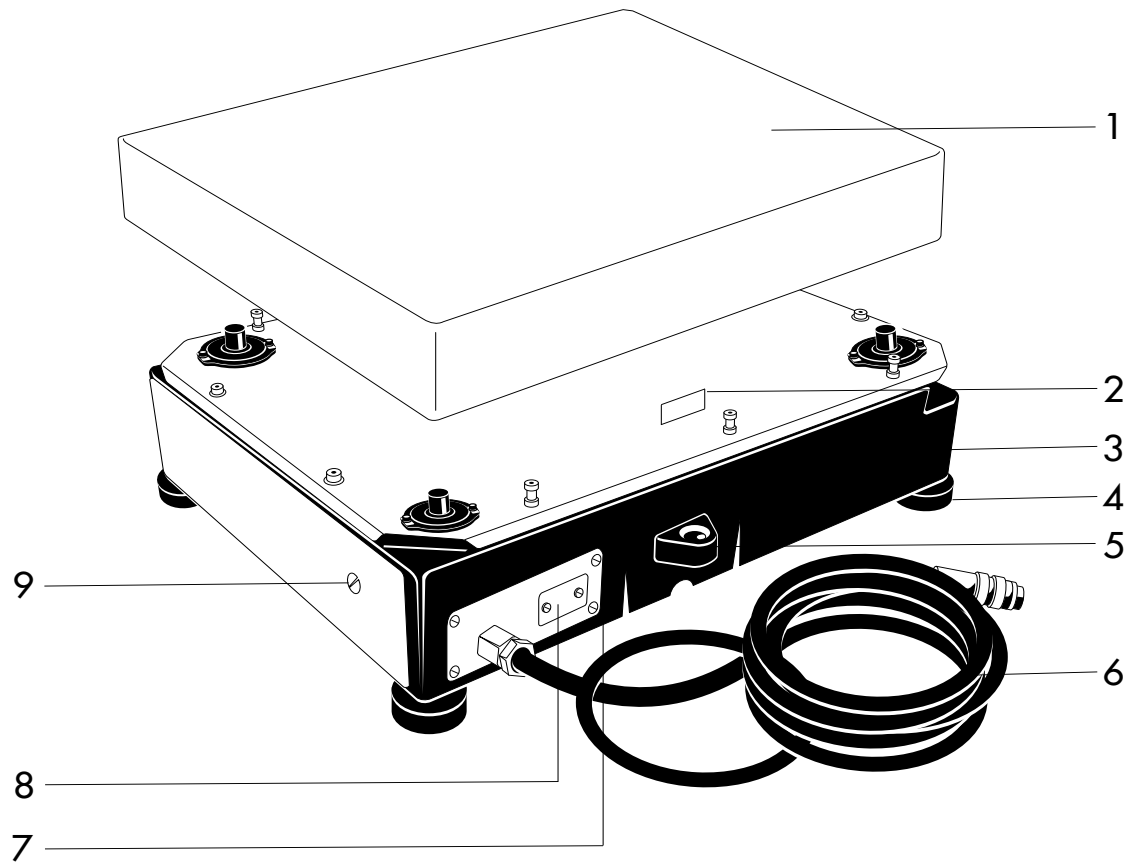


sartorius

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General View of the Weighing Platform



No. Designation

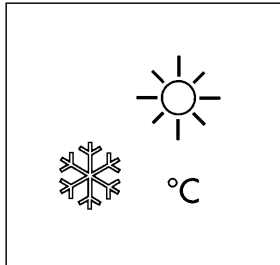
- 1 Load plate
- 2 Manufacturer's label
- 3 Metrological ID labels (only on weighing platforms verifiable or verified for use in legal metrology)
- 4 Leveling feet
- 5 Level indicator

No. Designation

- 6 Connecting cable (interface port/power supply)
- 7 Valve for barometric pressure compensation
- 8 Blank for power supply cable gland (optional)
- 9 Menu access switch (located behind the plug)

Installation Instructions

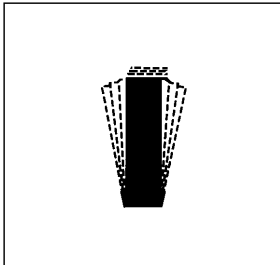
The equipment must be installed and put into operation by a trained Sartorius dealer or service technician, who will also show you how to work with it.



Ambient Conditions

Choose a suitable place to set up the weighing platform. Avoid exposing the weighing platform to the following ambient conditions:

- Extreme heat radiation
- Extreme vibration
- Aggressive chemical vapors
- Difficulty of access for maintenance and cleaning



Important:

If you need to use the weighing platform in an area exposed to heavy traffic (e.g., fork-lift trucks), you should install a protective frame, consisting of angular braces, around the weighing platform.

To calculate the dimensions for this protective frame, refer to the section entitled "Dimensions (Scale Drawings)."

Conditioning the Weighing Platform

Do not expose the weighing platform to extreme moisture over long periods. Moisture in the air can condense on the surfaces of a cold platform whenever it is brought to a substantially warmer place. If you transfer the weighing platform to a warmer area, make sure to condition it for about 2 hours at the new ambient temperature, leaving it unplugged from the power supply. Afterwards, if you keep the weighing platform connected to the power supply, the continuous positive difference between the inside of the platform and the outside will practically rule out the effects of moisture condensation.

IP65 Protection

In conformance with the IP65 protection rating, the weighing platform is dust-tight (protection rating 6: resistant to penetration by dust particles, according to particle size) and washdown-resistant (rating 5: resistant to splashes of water, washdown-resistant).

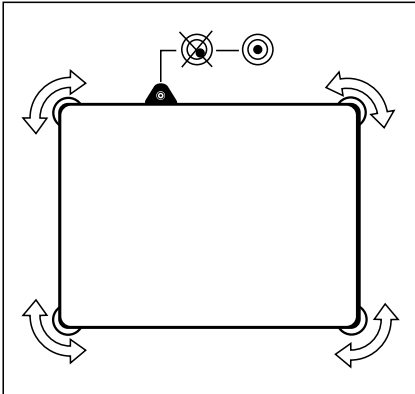
IP65 protection is guaranteed only if:

- the seals were installed by a qualified technician, and
- the connecting cables and cable glands were installed and connected by a qualified technician.

Getting Started

Setting Up the Weighing Platform

- Remove the weighing platform and load plate from the packaging
- Remove the foam material and manufacturer's labels
- Place the load plate on the weighing platform



Leveling the Weighing Platform

Level the weighing platform at the place of installation using the leveling feet (4) so that the air bubble is centered within the circle of the level indicator (5):

To raise the weighing platform, extend the leveling feet (turn clockwise).
To lower the weighing platform, retract the leveling feet (turn counterclockwise).

Make sure all four feet are in contact with the surface on which the platform stands.

Important:

- Do not perform any installation work while the equipment is connected to power.
- Installation work that affects the IP65 protection rating must be performed with extreme care.
- Always disconnect the equipment from power before connecting or disconnecting the data cable.
- Failure to observe the instructions contained in this manual during installation will result in forfeiture of all claims under the manufacturer's warranty.

Connecting the Weighing Platform

Please note that any person or company connecting a non-Sartorius-approved display and control unit (such as a computer) or AC adapter to the weighing platform shall assume all risks and responsibilities associated with this equipment.

Use only original Sartorius AC adapters.

The connecting cable is 3 meters long (approx. 10 feet). To order an extension cable or a customized cable, refer to the list of accessories or contact Sartorius.

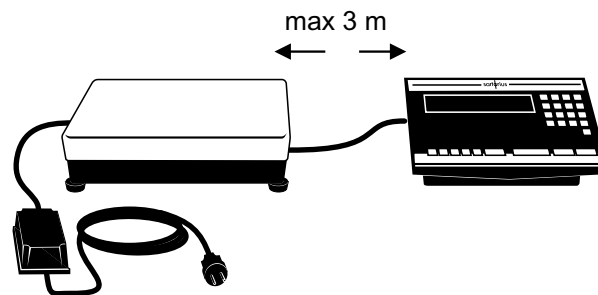
Cable Lengths:

Because you can choose whether to power the weighing platform via the interface port of the display and control unit or using a separate AC adapter (adapter kit required; must be installed by a Sartorius service technician), some restrictions apply to the cable lengths permissible between components.

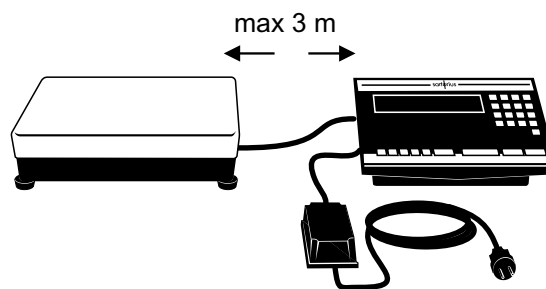
If you use a cable longer than 12 meters (~ 40 feet) between the weighing platform and the display and control unit, each of these components must be powered by a separate AC adapter.

Separate Power Connection (Optional) for the Weighing Platform

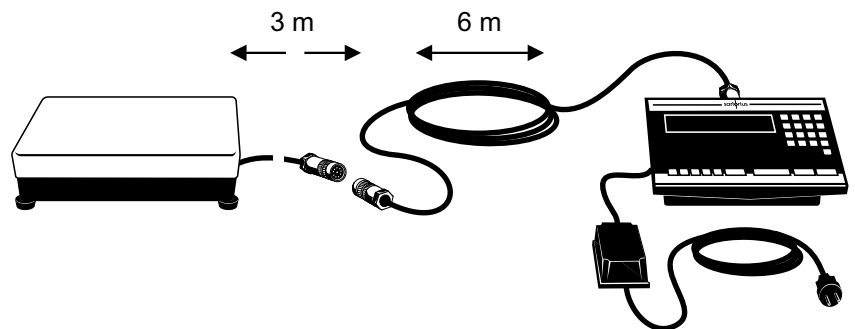
An adapter kit must be installed by a Sartorius dealer or service technician to connect the weighing platform separately to line current (mains supply). In addition, this separate power connection is required if you interface the weighing platform directly with a computer. The following diagrams show the options for powering weighing platforms and display and control units:



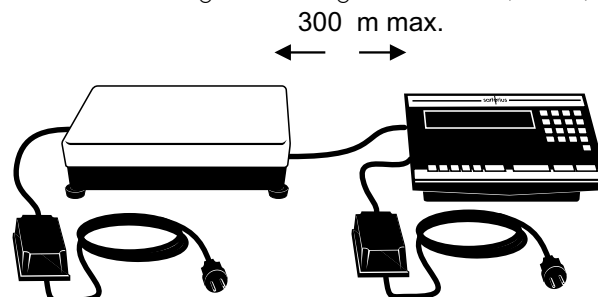
Connecting the industrial-grade ING2 AC adapter to the Sartorius isi industrial terminal without an extension cord:



Connecting the industrial-grade ING2 AC adapter only to the isi industrial terminal with an extension cord:



Connections using cables longer than 12 m (~40 ft):



The weighing platform is powered by the external industrial-grade ING 2 AC adapter (see "Accessories"). Make sure that the voltage rating printed on this unit is identical to your local line voltage. If the voltage specified on the label or the plug design does not match the rating or standard you use, please contact your local Sartorius office or dealer. To use a main feeder cable from the ceiling or to mount a CEE plug, you will have to make arrangements inside your facilities for installation of such cable equipment.

Use only original Sartorius AC adapters, identified by the Sartorius label. Use of AC adapters from other manufacturers, even if these units have an approval identification marking from a national testing laboratory, requires the consent of a trained service technician.

For detailed information on further options for powering the equipment (e.g., using local low voltage), contact Sartorius headquarters in Germany or one of the main offices based in your country.

The equipment must be connected to power in conformance with the installation requirements of your country.

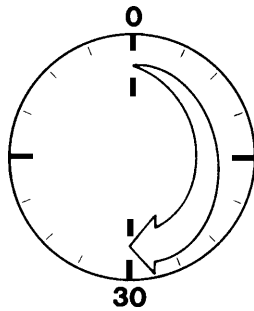
Safety Precautions

The Sartorius power supply rated to Industrial Class 2 (with safety extra-low voltage emission (SELV)) can be plugged into any electrical outlet without additional safety precautions. The ground or earth terminal is connected to the platform housing, which can be additionally grounded, if required. Install the power cable with adequate protection to prevent damage to the cable.

Fixed Power Connection

If the power cable is permanently installed or secured so that it cannot be unplugged, an emergency switch must be installed for disconnecting power to the equipment. This emergency switch must be located near the weighing platform and must be easily accessible. In addition, this switch must be labeled as an emergency switch. All operators must be instructed in the use of this switch.

Whenever possible, avoid wiring your weighing platform into networks that carry a heavy load (such as a connection to a compressor or similar equipment).



Warmup Time

To deliver exact results, the weighing platform must warm up for at least 30 minutes after initial connection to AC power or after a relatively long power outage. Only after this time will the weighing platform have reached the required operating temperature.

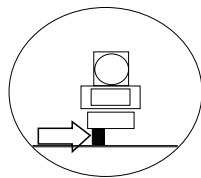
Preparing the Weighing Platform for Verification for Use in Legal Metrology in the EU: Allow the weighing platform to warm up for at least 24 hours after initial connection to the power supply.

* including the Signatories of the Agreement on the European Economic Area

Menu Access Switch

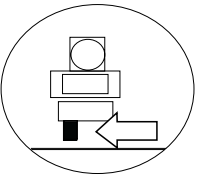
Prior to Verification:

- All settings in the operating menu are accessible (once the weighing platform has been verified for use in legal metrology, menu items relevant to legal metrology are blocked)
- Select configuration settings from corresponding specifications group (configuration cannot be changed after verification)
- Block the 'write' function for the xBPI interface



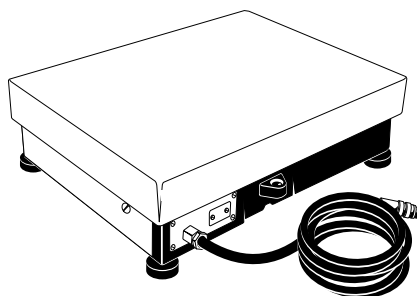
Function of the Menu Access Switch in Verification for Use in Legal Metrology:

When the menu access switch (9) is open, weighing ranges can be configured and calibration/adjustment can be performed, prior to verification.



After Verification:

Move the menu access switch (9) to the left. Configuration settings relevant to use of the weighing platform in legal metrology are no longer accessible.



Operating Limits

Maximum Overload Capacity

Because Sartorius weighing platforms are constructed to withstand rough treatment in industrial environments, the platform will not be damaged if occasionally loaded beyond the maximum weighing capacity.

The maximum overload capacity of this IS model is **130 kg**.

Shock Resistance

Even though Sartorius weighing platforms feature highly rugged construction, there are some limits. Avoid dropping objects from a considerable height onto the weighing platform and do not expose the platform to strong side impact. Sartorius weighing platforms are shock resistant in accordance with the shock response spectrum defined in the IEC68 standard, Part 2-27.

General Instructions for Integration into Conveyor Systems

The IS weighing platform is suitable for installation in conveyor systems. Follow the general instructions given below and refer to the “Dimensions (Scale Drawings)” to meet the requirements for such installation.

- Any moving or rotating parts intended to be permanently attached to the load plate must be designed so that they cannot negatively affect the accuracy of weighing results. For example, rotating mechanisms must be properly balanced.
- The load plate must be clear on all sides so that any parts or any dirt that falls will not create a connection between the weighing platform and any permanently mounted preload components.
- Any cables or tubing between the weighing platform and other equipment must not apply any force to the weighing platform. Make sure that cables do not touch the load plate.
- Do not install the weighing platform in a conveyor system located in a Zone 2 or 11 hazardous area/location.

Preload Range (Zero-setting Range)

The weight of components that are permanently installed on the weighing platform is called “preload.” The weighing platform electrically compensates for this preload so that the entire weighing range is available and the platform can be zeroed and can also be calibrated/adjusted using external weights. Higher preloads may result in a reduction in the maximum weighing capacity. The maximum preload that can be compensated for depends on the specifications configured (please see the “Specifications Chart”).

The preload must be set before the platform is verified for use in legal metrology. The components for integration into a conveyor must be installed on the weighing platform before you connect the platform to the power supply.

Configuring the Weighing Platform

If you have a standard-model weighing platform, you can adapt it for specific requirements such as weighing in international weight units, use under unfavorable ambient conditions, or further processing of weighing results, for example. If your weighing platform is to be verified for use in legal metrology, one weight unit must be selected before verification, and cannot be changed after verification has been performed.

You can customize the weighing platform (weighing module) via the Configuration menu using a connected display and control unit, or using a connected computer with special Sartorius configuration software (see accessories).

The configuration options for your weighing platform are listed in the “Specifications Chart” on the following pages.

Specifications Charts

Access the configuration menu of the connected Sartorius terminal or display and control unit of your choice. You need to set the appropriate codes before verification of the platform as a legal measuring instrument. Please note that when you change the configuration, this may also change the accuracy class besides the weighing capacity and the readability.

IS16EDE-HOCE (Type of weighing instrument: iso-TEST + BF BF or SARTOCOWAT + BF BF)

verifiable for use in legal metrology.

Specifications group (code):		Spec. gp.1* (10 3 1)	Spec. gp.2 (10 3 2)	Spec. gp.3 (10 3 3) ⁵⁾	Spec. gp.4 (10 3 4) ⁵⁾	Spec. gp.5 (10 3 5)	Spec. gp.6 (10 3 6)
Maximum capacity	kg	16	6.1	3.1	12.1	16	12.1
Readability	g	0.1	0.1	0.1	0.5	0 to 6 kg: 0.1 6 to 16 kg: 1	0 to 6 kg: 0.1 6 to 12.1 kg: 1
Weighing range		Standard	Configurable	Configurable	Configurable	Configurable	Configurable
Zero tracking±2%	kg	±0.32	±0.12	±0.06	±0.24	±0.32	±0.24
Initial zero-setting range	kg	±1	±1	±1	±1	±1	±1
Preload ¹⁾	kg	4	14	17	8	4	8
isoTEST function ²⁾		yes	yes	yes	yes	yes	yes
Metrological specifications							
Accuracy class	kg	Ⓔ	Ⓔ	Standard	Standard	Ⓔ	Ⓔ
Minimum capacity acc. to CD ³⁾	g	5	5	–	–	5	5
Minimum capacity acc. to AWC ⁴⁾	g	150	150	–	–	150	150
Verification scale interval	g	1	1	–	–	1	1
Temperature range	°C	+10 to +30	+10 to +30	+10 to +30	+10 to +30	+10 to +30	+10 to +30

¹⁾ No reduction in the maximum capacity up to this preload; higher preloads reduce the maximum capacity in 0.1-kg steps

²⁾ The isoTEST function cannot be selected for preloads > approx. 18 kg

³⁾ CD = Council Directive 2009/23/EC on non-automatic weighing instruments used in the EU and the Signatories of the Agreement on the European Economic Area

⁴⁾ AWC = average weight control based on the requirements of the German Regulations for Prepackaged Products

⁵⁾ Not allowed for use in legal metrology (legal for trade). A 10-kg calibration weight is required for external adjustment.

* = factory setting

IS16EDE-HOCE (Type of weighing instrument: iso-TEST + BF BF or SARTOCOWAT + BF BF)

verifiable for use in legal metrology.

Specifications group (code):		Spec. gp.7 (10 3 7)	Spec. gp.8 (10 3 8)	Spec. gp.9 (10 3 9)	Spec. gp.10 (10 3 10)	Spec. gp.11 (10 3 11)	Spec. gp.12 (10 3 12)
Maximum capacity	kg	16	16	12.1	16	6.1	3.1
Readability	g	0 to 3 kg: 1 3 to 6 kg: 2 6 to 16 kg: 5	2	2	5	2	1
Weighing range		Standard	Configurable	Configurable	Configurable	Configurable	Configurable
Zero tracking±2%	kg	±0.32	±0.32	±0.24	±0.32	±0.12	±0.06
Initial zero-setting range	kg	±1	±1	±1	±1	±1	±1
Preload ¹⁾	kg	4	4	8	4	14	17
isoTEST function ²⁾		yes	yes	yes	yes	yes	yes
Metrological specifications							
Accuracy class	kg	Ⓓ	Ⓓ	Ⓓ	Ⓓ	Ⓓ	Standard
Minimum capacity acc. to CD ³⁾	g	20	40	40	100	40	–
Minimum capacity acc. to AWC ⁴⁾	g	150	500	500	2500	500	–
Verification scale interval	g	1/2/5	2	2	5	2	–
Temperature range	°C	+10 to +40	+10 to +40	+10 to +40	+10 to +40	+10 to +40	+10 to +40

¹⁾ No reduction in the maximum capacity up to this preload; higher preloads reduce the maximum capacity in 0.1-kg steps. You cannot set a preload > 17 kg.

²⁾ The isoTEST function cannot be selected for preloads > approx. 18 kg

³⁾ CD = Council Directive 2009/23/EC on non-automatic weighing instruments used in the EU and the Signatories of the Agreement on the European Economic Area

⁴⁾ AWC = average weight control based on the requirements of the German Regulations for Prepackaged Products

⁵⁾ Not allowed for use in legal metrology (legal for trade). A 10-kg calibration weight is required for external adjustment.

IS34EDE-HOCE (Type of weighing instrument: iso-TEST + BF BF or SARTOCOWAT + BF BF)
verifiable for use in legal metrology.

Specifications group (code):		Spec. gp.1 (10 3 1)	Spec. gp.2* (10 3 2)	Spec. gp.3 (10 3 3)	Spec. gp.4 (10 3 4)	Spec. gp.5 (10 3 5)	Spec. gp.6 (10 3 6)
Maximum capacity	kg	34	34	26.1	34	26.1	34
Readability	g	0.1	0 to 6kg: 0.1 6 to 15kg: 0.2 15 to 34kg: 0.5	0 to 6kg: 0.1 6 to 15kg: 0.2 15 to 26.1kg: 0.5	1	1 6 to 34 kg 1	0 to 6 kg 0.1
Weighing range		Standard	Configurable	Configurable	Configurable	Configurable	Configurable
Zero tracking±2%	kg	±0.68	±0.68	±0.52	±0.68	±0.52	±0.68
Initial zero-setting range	kg	±1	±1	±1	±1	±1	±1
Preload ¹⁾	kg	4	4	12	4	12	4
isoTEST function ²⁾		yes	yes	yes	yes	yes	yes

Metrological specifications

Accuracy class	kg	Ⓔ	Ⓔ	Ⓔ	Ⓔ	Ⓔ	Ⓔ
Minimum capacity acc. to CD ³⁾	g	5	5	5	50	50	5
Minimum capacity acc. to AWC ⁴⁾	g	150	150	150	150	150	150
Verification scale interval	g	1	1	1	1	1	1
Temperature range	°C	10 to +30	+10 to +30	+10 to +30	+10 to +30	+10 to +30	+10 to +30

¹⁾ No reduction in the maximum capacity up to this preload; higher preloads reduce the maximum capacity in 1-kg steps. You cannot set a preload > approx. 31 kg.

²⁾ The isoTEST function cannot be selected for preloads > approx. 21 kg

³⁾ CD = Council Directive 2009/23/EC on non-automatic weighing instruments used in the EU and the Signatories of the Agreement on the European Economic Area

⁴⁾ AWC = average weight control based on the requirements of the German Regulations for Prepackaged Products

⁵⁾ Not allowed for use in legal metrology (legal for trade). A 10-kg calibration weight is required for external adjustment.

* = factory setting

IS34EDE-HOCE(Type of weighing instrument:iso-TEST + BF BF or SARTOCOWAT + BF BF)verifiable for use in legal metrology.

Specifications group (code):		Spec. gp.6 (10 3 6)	Spec. gp.7 (10 3 7)	Spec. gp.8 (10 3 8)	Spec. gp.9 (10 3 9)
Maximum capacity	kg	34	26.1	34	26.1
Readability	g	0 to 6 kg: 2 6 to 15 kg: 5 15 to 34 kg: 10	0 to 6 kg: 2 6 to 15 kg: 5 15 to 34 kg: 10	5	5
Weighing range		Configurable	Configurable	Configurable	Configurable
Zero tracking±2%	kg	±0.68	±0.52	±0.68	±0.52
Initial zero-setting range	kg	±1	±1	±1	±1
Preload ¹⁾	kg	4	12	4	12
isoTEST function ²⁾		yes	yes	yes	yes

Metrological specifications

Accuracy class	kg	Ⓜ	Ⓜ	Ⓜ	Ⓜ
Minimum capacity acc. to CD ³⁾	g		40	40	100 100
Minimum capacity acc. to AWC ⁴⁾	g		500	500	2500 2500
Verification scale interval	g	2/5/10	2/5/10	5	5
Temperature range	°C	+10 to +40	+10 to +40	+10 to +40	+10 to +40

¹⁾ No reduction in the maximum capacity up to this preload; higher preloads reduce the maximum capacity in 1-kg steps. You cannot set a preload > approx.31 kg.

²⁾ The isoTEST function cannot be selected for preloads > approx. 21 kg

³⁾ CD = Council Directive 2009/23/EC on non-automatic weighing instruments used in the EU and the Signatories of the Agreement on the European Economic Area

⁴⁾ AWC = average weight control based on the requirements of the German Regulations for Prepackaged Products

⁵⁾ Not allowed for use in legal metrology (legal for trade). A 10-kg calibration weight is required for external adjustment.

* = factory setting

IS 64 EDE-HOCE (Type of weighing instrument: iso-TEST + BF BF or SARTOCOWAT + BF BF)
verifiable for use in legal metrology.

Specifications group (code):		Spec. gp.1* (10 3 1)	Spec. gp.2 (10 3 2)	Spec. gp.3 (10 3 3) ⁴⁾	Spec. gp.4 (10 3 4) ⁴⁾
Maximum capacity	kg	64	51	31	16
Readability	g	1	1	1	1
Weighing range		Standard	Configurable	Configurable	Configurable
Zero tracking $\pm 2\%$	kg	± 1.3	± 1	± 0.6	± 0.3
Initial zero-setting range	kg	± 1.3	± 1.3	± 1.3	± 1.3
Preload ¹⁾	kg	13	26	46	61
isoTEST function ²⁾		yes	yes	yes	yes
Metrological specifications					
Accuracy class	kg	II	II	Standard	Standard
Minimum capacity acc. to CD ³⁾	g	50	50	–	–
Minimum capacity acc. to AWC ⁴⁾	g	10000	10000	–	–
Verification scale interval	g	10	10	–	–
Temperature range	°C	0 to +40	0 to +40	0 to +40	0 to +40

¹⁾ No reduction in the maximum capacity up to this preload; higher preloads reduce the maximum capacity in 1-kg steps. You cannot set a preload > approx. 14 kg.

²⁾ The isoTEST function cannot be selected for preloads > approx. 36 kg

³⁾ CD = Council Directive 2009/23/EC on non-automatic weighing instruments used in the EU and the Signatories of the Agreement on the European Economic Area

⁴⁾ AWC = average weight control based on the requirements of the German Regulations for Prepackaged Products

* = factory setting

IS 64 EDE-HOCEHOCE (Type of weighing instrument: iso-TEST + BF BF or SARTOCOWAT + BF BF)
verifiable for use in legal metrology.

Specifications group (code):		Spec. gp.5 (10 3 5)	Spec. gp.6 (10 3 6)	Spec. gp.7 (10 3 7)	Spec. gp.8 (10 3 8)	Spec. gp.9 (10 3 9)
Maximum capacity	kg	64	64	64	31	16
Readability	g	0 to 15 kg: 5 15 to 30 kg: 10 30 to 64 kg: 20	10	20	10	5
Weighing range		Configurable	Configurable	Configurable	Configurable	Configurable
Zero tracking $\pm 2\%$	kg	± 1.28	± 1.28	± 1.28	± 0.6	± 0.3
Initial zero-setting range	kg	± 1.3	± 1.3	± 1.3	± 1.3	± 1.3
Preload ¹⁾	kg	13	13	13	46	61
isoTEST function ²⁾		yes	yes	yes	yes	yes
Metrological specifications						
Accuracy class	kg	III	III	III	III	III
Minimum capacity acc. to CD ³⁾	g	100	200	400	200	100
Minimum capacity acc. to AWC ⁴⁾	g	2500	10000	15000	10000	2500
Verification scale interval	g	5/10/20	10	20	10	5
Temperature range	°C	0 to +40	0 to +40	0 to +40	0 to +40	0 to +40

¹⁾ No reduction in the maximum capacity up to this preload; higher preloads reduce the maximum capacity in 1-kg steps. You cannot set a preload > approx. 14 kg.

²⁾ The isoTEST function cannot be selected for preloads > approx. 36 kg

³⁾ CD = Council Directive 2009/23/EC on non-automatic weighing instruments used in the EU and the Signatories of the Agreement on the European Economic Area

⁴⁾ AWC = average weight control based on the requirements of the German Regulations for Prepackaged Products

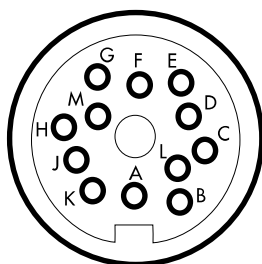
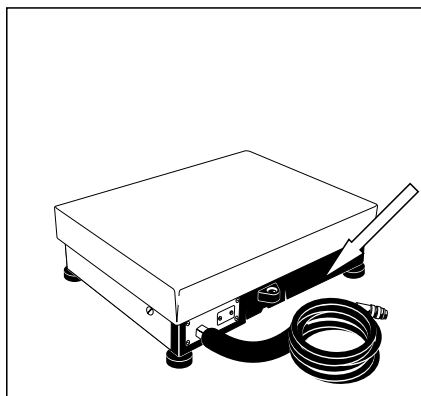
* = factory setting

General Specifications

(applicable for use in standard applications, not in legal metrology)

Model		IS 16 EDE-H	IS 34 EDE-H	IS 64 EDE-S	IS64EDE-H
Maximum capacity	kg	16	34	64	64
Readability	g	0.1	0.1	1	0.1
Linearity	g	$\leq \pm 0.2$	$\leq \pm 0.2$	$\leq \pm 0.5$	$\leq \pm 0.3$
Repeatability (standard deviation)	g	$\leq \pm 0.05$	$\leq \pm 0.1$	$\leq \pm 0.3$	$\leq \pm 0.1$
Response time (average)	s	<1.5	<1.5	<1	<1.5
Fastest response time (IQ)	s	<1	<1	<0.8	<0.8
Adaptation to ambient conditions and application requirements		by selection of one of 4 optimized filter levels			
Data output speed (depends on filter level selected)		0.1, 0.1, 0.2, 0.4 (normal data output speed)			
Dust and water protection rating		IP65	IP65	IP65	IP44*
Net weight, approx.	kg	15	15	15	15
Requirements for power connection (optional)		ING2 (TNG 220/115V)			
Frequency	Hz	48 - 63	48 - 63	48 - 63	48 - 63
Power consumption: with isi 10,20,30 connected to ING2)	VA	max. 34 average 10	max. 34 average 10	max. 34 average 10	max. 34 average 10
Power consumption: weighing platform only, VA average 2.5 connected to ING2			average 2.5	average 2.5	average 2.5
Selectable weight units		g, kg, ct, oz, ozt, tlh, tlt, GN, dwt, mg, /lb, tlc, mom, K, tol, bat, MS			
Allowable ambient temperature range	°C	+0 to +40 (273 K - 313 K)	+0 to +40 (273 K - 313 K)	+0 to +40 (273 K - 313 K)	+0 to +40 (273 K - 313 K)
Allowable operating temperature range	°C	+10 to +30 (283 K - 313 K)	+10 to +30 (283 K - 313 K)	+10 to +30 (273 K - 313 K)	+10 to +30 (273 K - 313 K)
Automatic zero tracking, can be turned off by menu code	°C	Standard feature	Standard feature	Standard feature	Standard feature
Built-in interface,		RS-485 (standard, xBPI protocol): 8 bits; odd parity; transmission speed: 9600-38,400 baud; half-duplex. Convertible to RS-232 (SBI protocol): 7 bit; parity: even, mark, odd, space; transmission speed: 150-19,200 baud; 1 or 2 stop bits; software/hardware handshake. Factory setting: 1200 baud; odd parity; 1 stop bit; hardware handshake with 2 characters after CTS			

*) = IP 65 (special version available on request)



Pin Assignment Chart for the RS-485 Interface

Cable length: 3 m (approx. 10 ft.)

Male connector:

Type C091D, 12-pin round connector with threaded locking ring, Amphenol (IP65)

A	RxD-TxD-N	
B	Not connected	
C	Not connected	
D	Not connected	
E	Signal GND	
F	Menu access switch for calibration/adjustment (routed externally)	
G	VCC (24V power supply)	A
H	Not connected	
J	GND (24V power supply)	
K	GND (24V power supply)	
L	RxD-TxD-P	
M	VCC (24V power supply)	

Pin Assignments/Interface Connector (Recommended):

Type C091D, 12-pin, Amphenol (IP65)

Type of cable: AWG 24 specification

Be sure to follow the instructions above for connecting the weighing platform to the power supply!



Troubleshooting Guide

Problem

No segments appear on the display

Possible Causes

No line current is available
The AC adapter is not plugged in

The weighing platform has been in standby mode for more than 5 minutes

Solution

Check the power supply
Plug the AC adapter into the platform and into an electrical outlet
Turn on the display and control unit

The weight display shows "H"

The load exceeds the capacity of the weighing platform

Unload the weighing platform

The weight display shows "L" or "Err 54"

The load plate is not on the platform

Place the load plate on the weighing platform

The weight display briefly indicates "Err 01"

The weight unit selected requires more decimal places than are available in the display

Change setting in the "Devices" setup menu of the display and control unit

The weight display briefly indicates "Err 02"

One of the requirements for calibration/adjustment has not been met (e.g., the weighing platform is loaded)

Possible solutions:
- Zero the weighing platform.
- Unload the weighing platform
(Calibrate/ adjust the weighing platform only when a zero readout is displayed)

The weight display briefly indicates "Err 03"

Calibration/adjustment could not be completed within a specific time

Allow the equipment to warm up and start calibration/adjustment again

The error code "ERR 07" is not allowed for weighing platform

The last function you activated contact your local dealer or forms used in legal metrology (legal for trade)

To change the menu codes, displayed service technician

The error code "ERR 08" is platform is too heavy for the

The load on the weighing range for the configuration platform to be zeroed

Check the initial zero-setting displayed code you have selected from the "Specifications Charts", to determine whether this range is correct

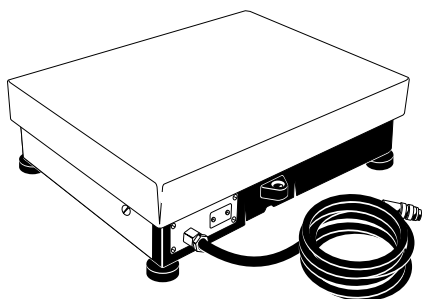
The error code "ERR 09" is platform is unloaded, but it is not

The gross value is < zero and the range for the configuration possible to tare the platform

Check the initial zero-setting displayed code you have selected from the "Specifications Charts", to determine whether this range is correct

The error code "ERR 10" is displayed	There are values stored in the tare memories for your application, and you tried to clear the lower-level tare memory	Clear the tare memories for your application first, then clear the lower-level tare memory
The error code "ERR 12" is displayed	You tried to store a value in the tare memory for applications, although this memory has been blocked by menu code 2 2 x You entered a numeric tare that is not allowed	Check the configuration Check the number you have entered and correct it, if necessary
The error code "ERR 17" is displayed	Internal calibration is not possible because the preload setting is too high	Reduce the preload or select a different configuration code
The error code "ERR 19" is displayed	The remaining weighing capacity available is too low because the relatively high preload setting has reduced the maximum capacity	Reduce the preload
The special code "◆" remains displayed	None of the keys has been pressed since the weighing platform was switched on	Press any key
The weight readout changes constantly	Unstable environment (ambient conditions; e.g., too much vibration or exposure to excessive drafts)	Set up the weighing platform in a different area Access the "Devices" setup menu to adapt the weighing platform to the particular environment
	A foreign object is caught between the load plate and the platform frame	Remove the foreign object
The readout of the weighing result is obviously wrong	The weighing platform was not adjusted/calibrated before weighing The weighing platform is not level	Adjust/calibrate the weighing platform Level the weighing platform as described in the instructions

If any other errors occur, please contact your local Sartorius dealer or Sartorius Service Center.



Care and Maintenance

Service

Regular servicing by a Sartorius technician will extend the service life of your weighing platform and ensure its continued weighing accuracy. Sartorius can offer you service contracts, with your choice of regular maintenance intervals ranging from 6 months to 2 years.

Cleaning

Before cleaning the weighing platform, disconnect it from the power supply (e.g., unplug the AC adapter).

To clean the weighing platform when it has been exposed to dry ambient conditions:

- Use a piece of cloth dampened with a commercially available cleaning agent to wipe down the weighing platform

Wet Environment:

To clean the weighing platform when it has been in a wet environment:

- Use a commercially available cleaning agent and hose down the platform afterwards.

In conformance with the IP65 protection rating, the weighing platform is washdown resistant.

However, the applicable standards (EN 60529 and, in Germany, DIN VDE 0470 T1) do not allow the use of pressurized water (such as strong jets of water using a hose or high-pressure cleaning equipment). When spraying down the weighing platform, avoid directing strong jets of water at the 4 silicone gaskets beneath the load plate so that they are not torn by the water pressure.

Never use concentrated acids, bases, solvents or pure alcohol to clean the weighing platform!

Corrosive Environment

To clean the weighing platform exposed to a corrosive environment:

- Regularly remove all traces of corrosive substances from the platform
- Follow the manufacturer's directions provided for the disinfectants and cleaning agents you use to clean the weighing platform

Important Note:

If the water that you use to clean the weighing platform is too hot or too cold, the difference in temperature between the water and the platform can cause condensation within the platform. This condensation may cause the weighing platform to malfunction.

Safety Inspection

If there is any indication that safe operation of the weighing platform is no longer warranted, turn off the power and disconnect it from the power supply immediately. Lock the equipment in a secure place to ensure that it cannot be used for the time being.

Safe operation of the weighing platform with the AC adapter is no longer ensured when

- there is visible damage to the AC adapter
- the AC adapter no longer functions properly
- the AC adapter has been stored for a relatively long period under adverse conditions

In this case, notify your nearest Sartorius Service Center or the International Technical Support Unit based in Goettingen, Germany. Maintenance and repair work may be performed only by authorized Sartorius service technicians who have access to the required maintenance manuals and have attended the relevant service training courses.

Instructions for Recycling the Packaging

Sartorius products are packaged to ensure safe shipment using environmentally friendly materials. After successful installation of the equipment, you should return this packaging for recycling. For information on recycling options, including recycling of old weighing equipment, contact your municipal waste disposal center or local recycling depot.

CE Marking

The **CE** marking affixed to the equipment indicates that the equipment meets the requirements of the following Directive(s):

Council Directive 89/336/EEC "Electromagnetic Compatibility (EMC)"

Applicable European Standards:

Limitation of emissions: **EN 50081-1** Residential,
commercial and light industry

EN 50081-2 Industrial environment

Defined immunity
to interference:

EN 50082-1 Residential,
commercial and light industry

EN 50082-2 Industrial environment

Important Note:

The operator shall be responsible for any modifications to Sartorius equipment (not permitted on equipment to be verified) and for any connections of cables or equipment not supplied by Sartorius and must check and, if necessary, correct these modifications and connections. On request, Sartorius will provide information on the minimum operating specifications (in accordance with the Standards listed above for defined immunity to interference).

Pursuant to the German Directive for the Implementation of Regulations for Prevention of Accidents, "Elektrische Anlagen und Betriebsmittel (VBG 4)" (electrical installations and equipment) of April 1986, it is hereby certified that the equipment delivered has been manufactured and tested in compliance with the following DIN/VDE regulations:

DIN IEC 348/VDE 0411

Safety requirements for electronic measuring apparatus

DIN IEC 380/VDE 0806

Safety of electrically energized office machines

DIN IEC 601/VDE 0750

Safety of medical electrical equipment

and with Article 73/23/EEC, European Community Low Voltage Directive of 19 February 1973.

When you use electrical equipment in installations and under ambient conditions requiring higher safety standards, you must comply with the provisions as specified in the applicable regulations for installation in your country.

CE Declaration of Type Conformity to Directive No. 2009/23/EC

This declaration is valid for non-automatic electromechanical weighing instruments for use in legal metrology. These weighing instruments accepted for legal metrological verification have an EC Type-Approval Certificate. The model(s) concerned is (are) listed below along with the respective type, accuracy class, and EC Type-Approval Certificate number:

Model	Weighing instrument type	Accuracy Class	EC Type Approval No.	In Conjunction with Test Certificates	
				Type	Certificate No.
IS.....-OCE*	iso-TEST	II oder III	D97-09-018	HA BD	D09-95.18
				BD BF	D09-96.30
				BF BF	D09-96.30
				HC BF	D09-96.30
IS.....-XCE*	iso-TEST	II oder III	D97-09-018	BD BF	D09-96.30
				BF BF	D09-96.30
				HC BF	D09-96.30
IS.....-OCE**	SARTOCOWAT	II oder III	T7899	HA BD	D09-95.18
				BD BF	D09-96.30
				BF BF + TA	D09-96.30 + D09-11.02
				HC BF	D09-96.30
IS.....-XCE**	SARTOCOWAT	II oder III	T7899	BD BF	D09-96.30
				BF BF + TA	D09-96.30 + D09-11.02
				HC BF	D09-96.30

*) when connected to indicating and operator terminal isi10, isi20, isi30, TN (CIS2, CISL2, CIS3, CISL3), TN-X (CIXS3), TN-Pro (CISPRO), YAC01LA, YAC01LP, YAC01FC, YAC02FC or computer (CE) and software Sartorius Win Scale (D09-99.15)

**) when connected to indicating and operator terminal TA (CAIS1, CAISL1, CAIS2, CAISL2, CAIS3, CAISL3)

SARTORIUS AG declares that its weighing instrument types comply with the requirements of the Council Directive on non-automatic weighing instruments, no. 2009/23/EC of 23 April 2009; the associated European Standard "Metrological aspects of non-automatic weighing instruments," No. EN 45501; the most recently amended versions of the national laws and decrees concerning legal metrology and verification in the Member States of the European Union, the EU, and the Signatories of the Agreement on the European Economic Area, which have adopted this Council Directive into their national laws; and with the requirements stipulated on the Type-Approval Certificate for verification. This Declaration of Type Conformity is valid only if the ID label on the weighing instrument has the CE mark of conformity and the green metrology sticker with the letter

"M" stamped on it (the two-digit number in large print stands for the year in which the mark was affixed):

Example (date/year and number of the notified body may vary):



If these marks are not on the ID label, this Declaration of Type Conformity is not valid. Validity can be obtained, for example, by submitting the weighing instrument for final processing by an authorized representative of SARTORIUS AG. The period of validity of this Declaration of Type Conformity shall expire upon any tampering with, repair or modification of this weighing instrument or, in some Member States, on the date of expiration. This declaration applies only to the weighing instrument without peripheral devices.

The operator of this weighing instrument shall be responsible for obtaining an authorized renewal of the verification, such as subsequent or periodic verification, of the weighing instrument for use as a legal measuring instrument.

Sartorius AG
37070 Goettingen, Germany
Signed in Goettingen on 03 May 2011

Dr. Reinhard Baumfalk
(Vice President R&D)

J. Rehwald
(Head of the Production Department
Mechatronics / Weighing Technology Division)

Use of the Weighing System in Legal Metrology in the EU

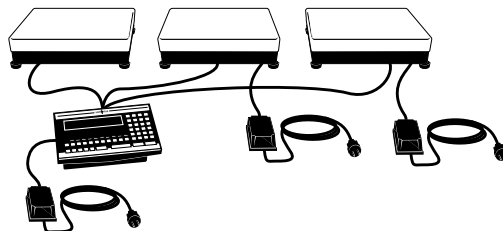
Components of a Verifiable Weighing System

Your weighing platform is a modular device. The weighing system in which this weighing platform is connected is verifiable for use in legal metrology only if this platform is combined with a suitable terminal or with a PC running Sartorius software ("Winscale").

The weighing platform or weighing system may not be used for weighing goods intended for direct sale to the public, and may not be used in legal metrology prior to the initial verification.

The type-approval certificate for verification applies to non-automatic weighing instruments and, in Germany, to automated weighing instruments used in non-continuous weighing with or without control functions. Thus a verified weighing system can consist of

- an isi industrial terminal + 1 to 3 IS weighing platforms



or

- an isi industrial terminal + at least one IS weighing platform + up to 2 additional weighing instrument that have undergone EU or national verification.
- The weighing instrument may not be used for weighing goods intended for direct sale to the public. The type-approval certificate for verification applies to non-automatic weighing instruments only; for automatic operation with or without auxiliary devices installed, you must comply with your country's national regulations applicable at the place of installation of your weighing instrument.

Effect of the Preload on Verifiability

(The preload can be changed only prior to verification!)

Only internal adjustment (calibration) is allowed for weighing instruments verified for use in legal metrology (see "Effect of the Preload on Internal Calibration/Adjustment").

The preload can be changed only prior to verification.

The legal basis permitting Sartorius to perform initial verification is constituted by the following: 1) EC council directive no. 2009/23/EC on non-automatic weighing instruments, which has been applicable within the harmonized Single Market of the European Union since 1 January 1993; and 2) the certificate issued by the Metrology Department "Eichwesen" of the Landesverwaltungsamt (administrative offices) of Lower Saxony in Germany (now MEN, Mess- und Eichwesen Niedersachsen).

Approved Auxiliary Measuring Devices

If the weighing system is used in legal metrology, any auxiliary devices connected must also be verifiable. Auxiliary devices that are metrologically relevant, such as printers, remote display units, or the like, must have the metrology label (black "M" on a green background). The auxiliary device must be verified at the same time that the entire system is verified. In Germany, if an auxiliary device is connected at a later date to a verified system already in operation, the appropriate weights and measures office must be notified; the auxiliary device may be used in legal metrology directly following installation, however, provided that it is installed in accordance with applicable regulations and that it bears the green metrology sticker referred to above.

"EC Verification" - A Service Offered by Sartorius

Our service technicians authorized to perform the verification of your weighing instruments that are acceptable for legal metrological verification can inspect and verify the metrological specifications at the place of installation within the Member States of the European Union and the Signatories of the Agreement on the European Economic Area.

Subsequent Verifications within the European Countries

The validity of the verification will become void in accordance with the national regulations of the country in which the weighing instrument is used. For information on verification and legal regulations currently applicable in your country, and to obtain the names of the persons to contact, please contact your local Sartorius office, dealer or service center.



EG-Bauartzulassung

EC type-approval certificate

Zulassungsinhaber:

Sartorius AG

Issued to:

Weender Landstr. 94-108
37075 Göttingen

Rechtsbezug:

In accordance with:

§ 13 des Gesetzes über das Mess- und Eichwesen (*verification act*)
vom/dated 23. März 1992 (BGBl. I S. 711), zuletzt geändert am (*last*
amended on) 02.02.2007 (BGBl. I S. 58), in Verbindung mit Richtlinie (*in*
connection with council directive) 90/384/EWG, geändert durch (*amended by*)
93/68/EWG

Bauart:

In respect of:

Nichtselbsttätige elektromechanische Waage mit oder ohne Hebelwerk
Nonautomatic electromechanical weighing instrument with or without
leverwork

Typ / Type:

iso-TEST

Genauigkeitsklasse/class I, II, III, IIII Max 2,1 g ... 300 t

Option: Mehrteilungswaage, Mehrbereichswaage
Multi-interval instrument, multiple range instrument

Zulassungsnummer:

D97-09-018 7. Revision

Approval number:

Gültig bis:

26.06.2017

Valid until:

Anzahl der Seiten:

18

Number of pages:

Geschäftszeichen:

PTB-1.12-4030179

Reference No.:

Benannte Stelle:

0102

Notified Body:

Im Auftrag

By order

Marcus Link



Braunschweig, 29.06.2007

Siegel
Seal

Die Hauptmerkmale, Zulassungsbedingungen und Auflagen sind in der Anlage enthalten, die Bestandteil der Revision der EG-Bauartzulassung ist. Hinweise und eine Rechtsbehelfsbelehrung befinden sich auf der ersten Seite der Anlage

The principal characteristics, approval conditions and special conditions, if any, are set out in the Annex which forms an integral part of this Revision of the EC type-approval certificate. For notes and information on legal remedies, see first page of the Annex.



EC type-approval certificate

Number **T7899** revision 0
Project number 10200901
Page 1 of 3

Issued by NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands

In accordance with The Council Directive 2009/23/EC on non-automatic weighing instruments.

Manufacturer Sartorius AG
Weender Landstrasse 94 - 108
37075 Goettingen
Germany

In respect of A class **I**, **II** or **III**, electronic, **non-automatic weighing instrument**.
Manufacturer mark/name: Sartorius
Type : SARTOCOWAT

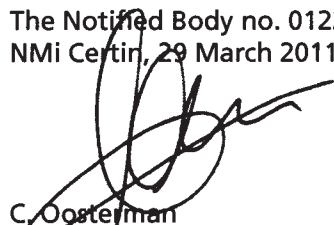
Characteristics $n \leq$ the number of verification scale intervals mentioned in the test certificates of the weighing modules.

In the description number T7899 revision 0 further characteristics are described.

Valid until 29 March 2021

Description and documentation The instrument is described in the description number T7899 revision 0 and documented in the test certificates involved.

The Notified Body no. 0122
NMI Certin, 29 March 2011



C. Oosterman
Head Certification Board



Prüfschein

Test certificate

Ausgestellt für:

Issued to:

Sartorius AG
Weender Landstraße 94 – 108
37075 Göttingen
Bundesrepublik Deutschland

Prüfgrundlage:

In accordance with:

EN 45501 (1992), Nr.8.1, OIML R 76-1 (1992)

Gegenstand:

Object:

Lastaufnehmer mit Wägezelle und Auswerteelektronik mit digitalem Ausgang als Modul einer elektromechanischen Waage zum Anschluß an geeignete Anzeige- und Bedienterminals
Load receptor with load cell and electronic device with digital output as module of an electromechanical weighing instrument for connection to suitable display- and operator-terminals
Typ / type **BA BF, BC BF, BD BF, BF BF, HC BF, MA BF und MD BF**

Kennummer:

Serial number:

Prüfscheinnummer:

Test certificate number:

D09-96.30 7. Revision / Revision 7

Datum der Prüfung:

Date of Test:

Anzahl der Seiten:

Number of pages:

12

Geschäftszeichen:

Reference No.:

1.14 – 02001430

Benannte Stelle:

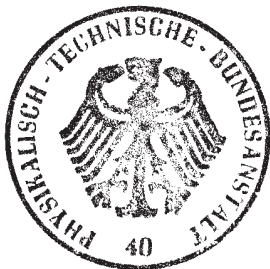
Notified Body:

0102

Im Auftrag

By order

Link



Braunschweig, 2002-11-13

Siegel

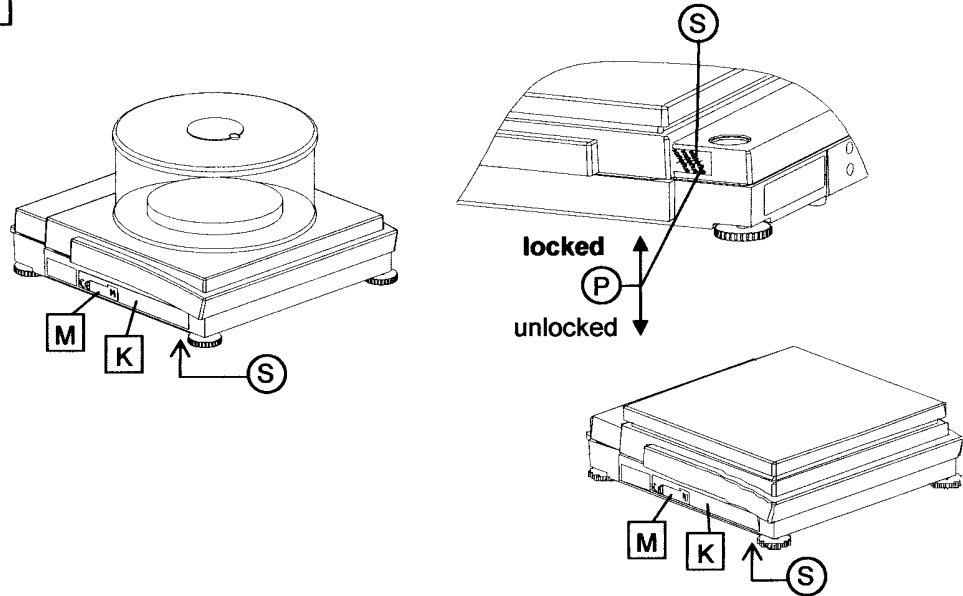
Seal

Hinweise siehe erste Seite der Anlage, die Bestandteil des Prüfscheines ist.
For notes, see first page of the Annex which forms an integral part of the test certificate.

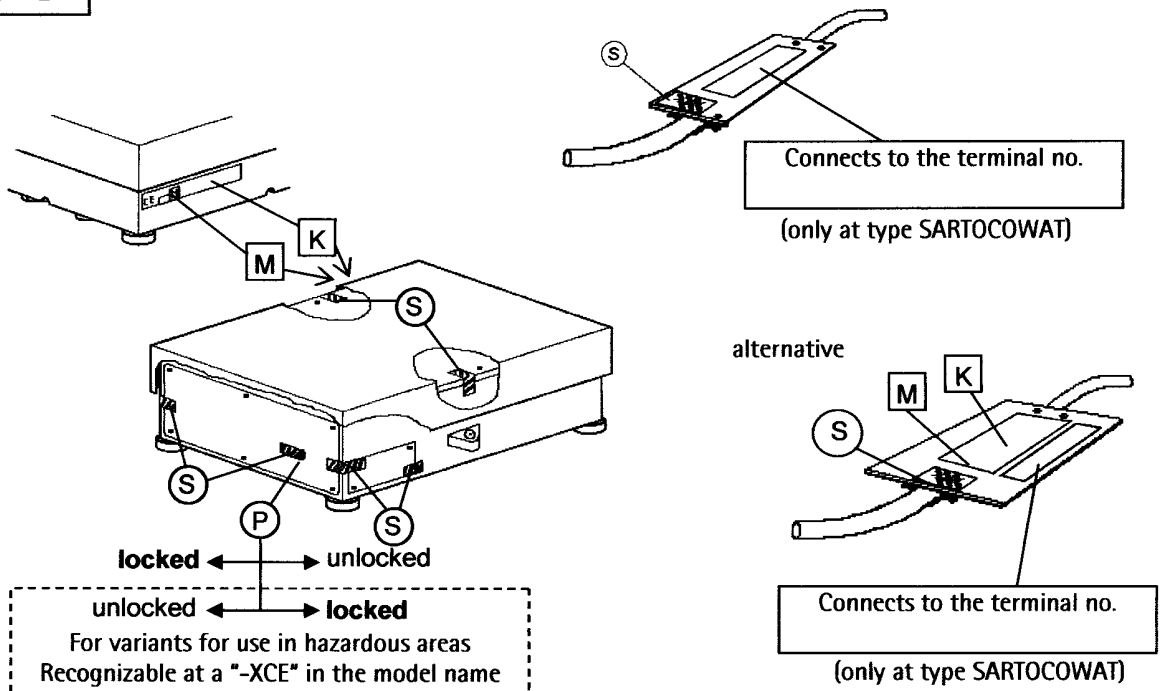
Plates and Markings – IS... –CE + Terminals

Note: Protective seals of the indicating and operator terminal see belonging manuals.

Type BD BF



Type BF BF

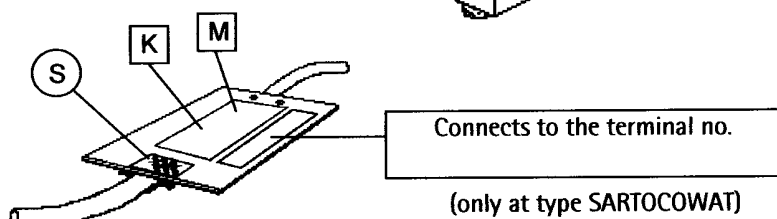
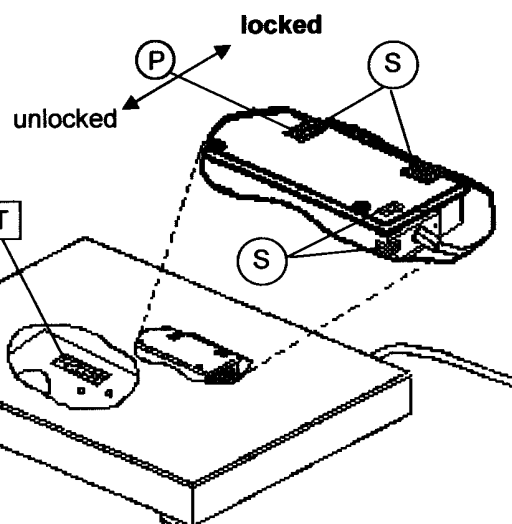
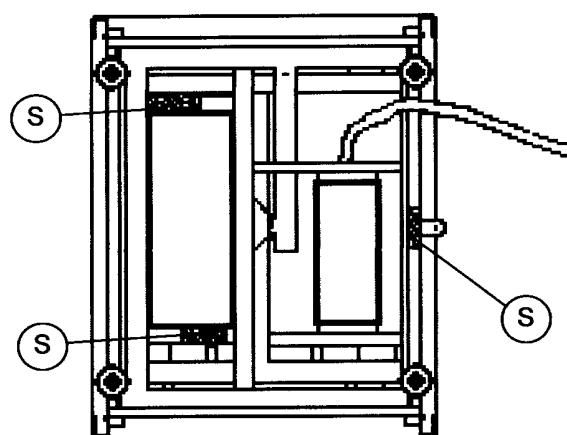


Type of weighing instrument: iso-TEST Types of weighing modules: BD BF, BF BF, HA BD, HC BF
EC Type-approval D97-09-018 + Test certificates D09-96.30, D09-95.18

or

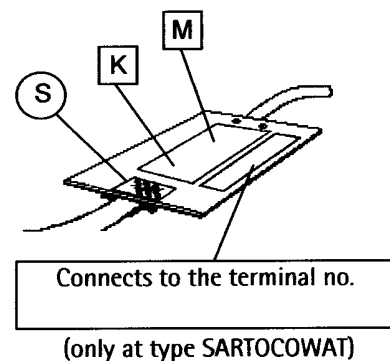
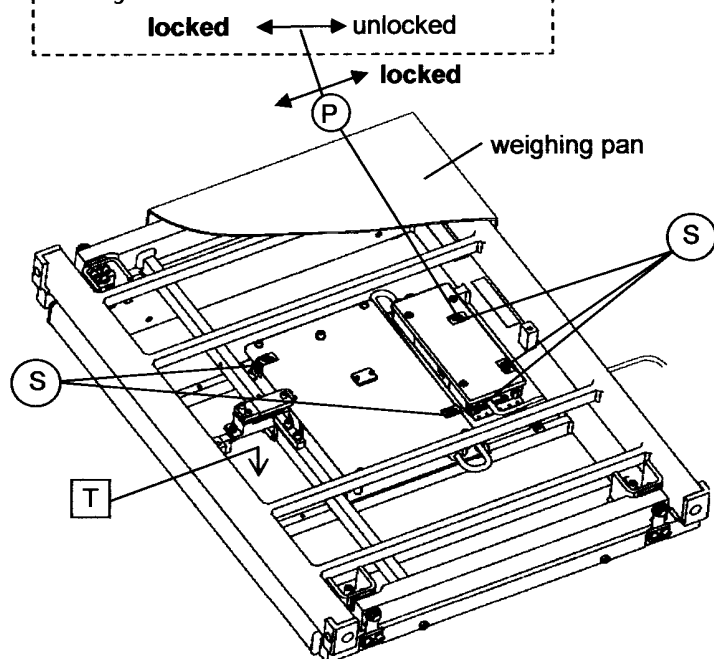
Type of weighing instrument: SARTOCOWAT Types of weighing modules: BD BF, BF BF, HA BD, HC BF
EC Type-approval T7899 + Test certificates D09-96.30, D09-95.18

Type HA BD



Type HC BF

For variants for use in hazardous areas
Recognizable at a "-XCE" in the model name



- K** Descriptive plate with CE-conformity mark
- M** Mark for EC verification (green metrology sticker)
- S** Protective seal

- T** Plate with model designation
- P** Menu access switch

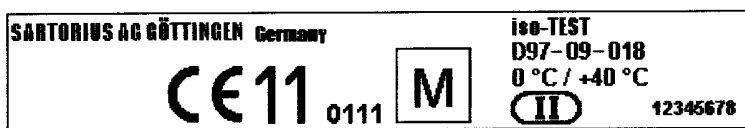
Type of weighing instrument: iso-TEST Types of weighing modules: BD BF, BF BF, HA BD, HC BF
EC Type-approval D97-09-018 + Test certificates D09-96.30, D09-95.18

or
Type of weighing instrument: SARTOCOWAT Types of weighing modules: BD BF, BF BF, HA BD, HC BF
EC Type-approval T7899 + Test certificates D09-96.30, D09-95.18

In connection with terminals types isi10, isi20, isi30, TN (CIS2, CISL2, CIS3, CISL3), TN-X (CIXS3), TN-Pro (CISPRO), YAC01LA, YAC01LP, YAC01FC, YAC02FC or computer (CE) and software Sartorius Win Scale (D09-99.15)

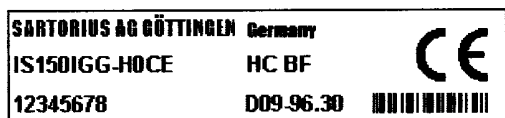
Example of descriptive plate of the already verified weighing instrument

K



Example of plate with model designation - weighing module

T



Example of plate with model designation - terminal

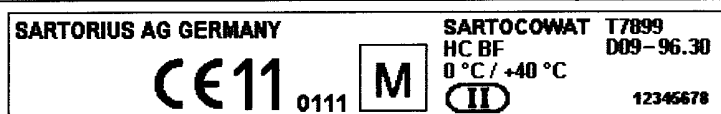
T



In connection with terminal type TA (CAIS1, CAISL1, CAIS2, CAISL2, CAIS3, CAISL3)

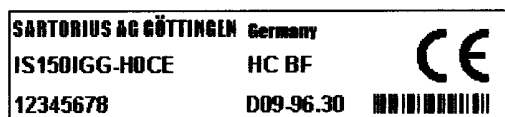
Example of descriptive plate of the already verified weighing instrument

K



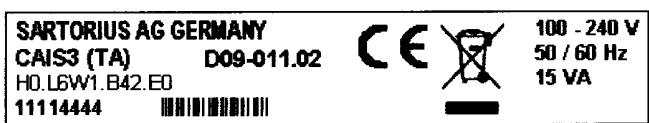
Example of plate with model designation - weighing module

T



Example of plate with model designation - terminal

T



Type of weighing instrument: iso-TEST Types of weighing modules: BD BF, BF BF, HA BD, HC BF
EC Type-approval D97-09-018 + Test certificates D09-96.30, D09-95.18
or
Type of weighing instrument: SARTOCOWAT Types of weighing modules: BD BF, BF BF, HA BD, HC BF
EC Type-approval T7899 + Test certificates D09-96.30, D09-95.18

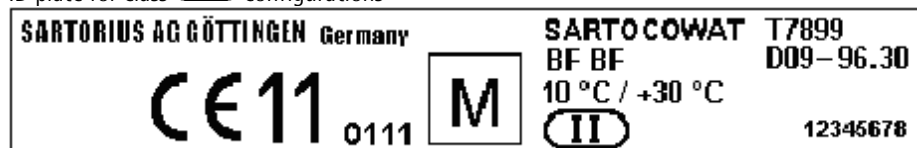
PPIS030511e

Selecting and Attaching ID Plates

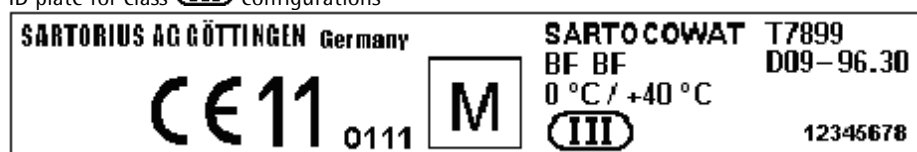
The ID plate is to be selected and attached according to the specification block (configuration of scales) and the display and control unit (terminal). For details of how to position the ID plate on the scales or tag holder, refer to the instructions in "Plates and Markings".

If display and control units (terminals) of type **TA**, models **CAIS1**, **CAISL1**, **CAIS2**, **CAISL2**, **CAIS3**, **CAISL3** are being used, EC Type Approval Certificate No. **T7899**, type **SARTOCOWAT** is applicable.

ID plate for class **(II)** configurations

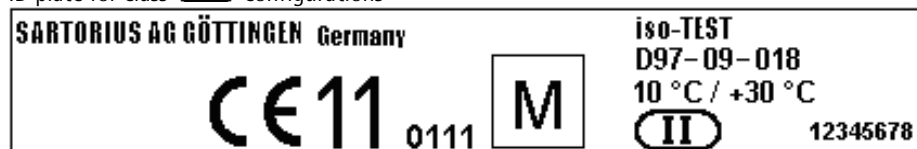


ID plate for class **(III)** configurations

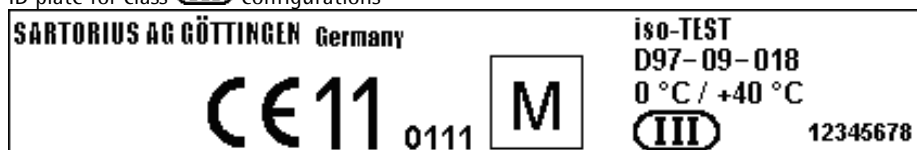


If display and control units (terminals) of type **TN**, models **CIS2**, **CSL2**, **CIS3**, **CISL3**, type **TN-X**, model **CISX3**, type **TN-Pro**, model **Combics Pro**, type **isi10**, **isi20**, **isi30**, type **YAC01LA**, type **YAC01LP**, type **YAC01FC**, type **YAC02FC**, PC with **Sartorius Win Scale** software
EC Type Approval Certificate No. **D97-09-018**, type **iso-TEST** is applicable.

ID plate for class **(II)** configurations



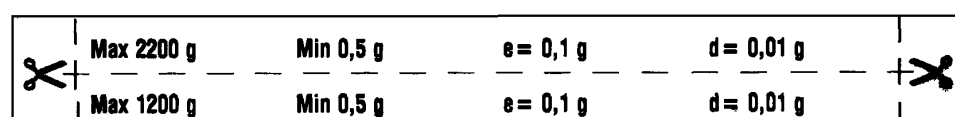
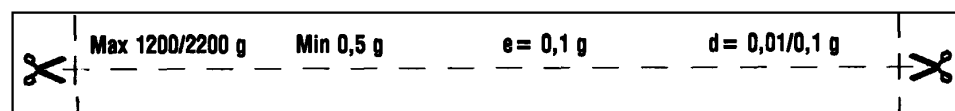
ID plate for class **(III)** configurations



Select and Attach Plate Containing Metrological Data

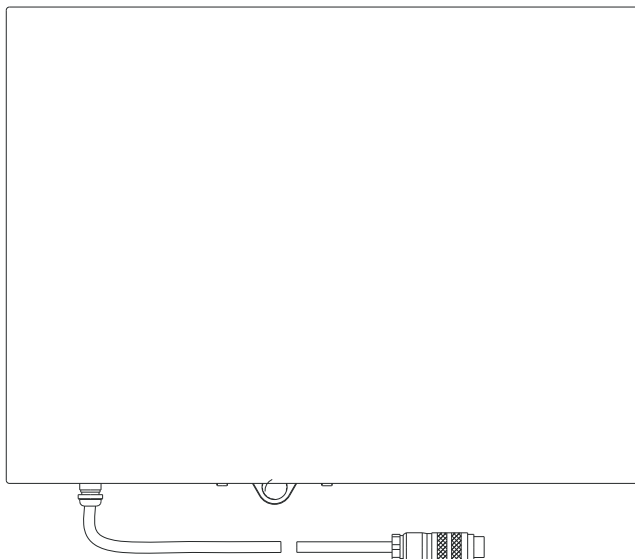
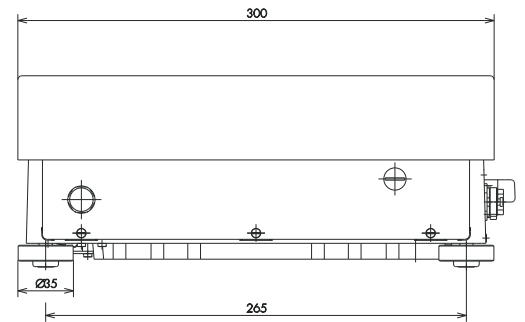
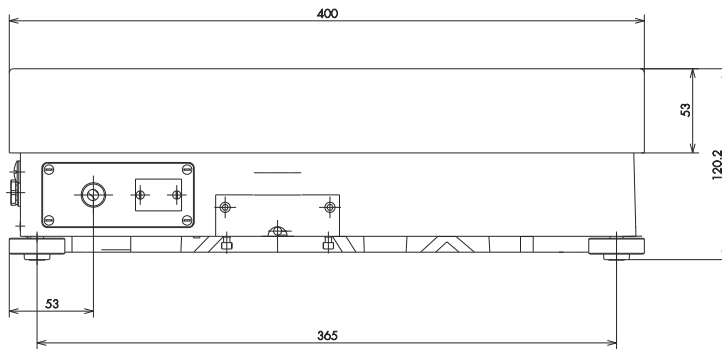
Plates with the metrological data Max, Min e and d must also be attached near to the display. Select the plate with the Max, Min e and d metrological data that is suitable for the configuration, cut along the dotted lines and attach above the display. The transparent protective film must be stuck over the plate containing the metrological data. The tamper-proof plate containing the metrological data does **not** need verification seals.

Examples of attached plates containing metrological data for the possible configurations.

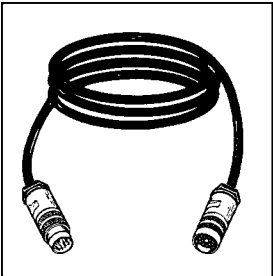
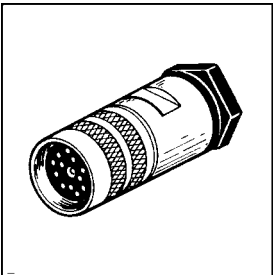
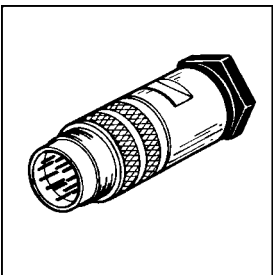
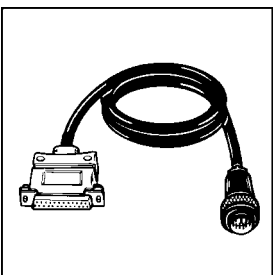
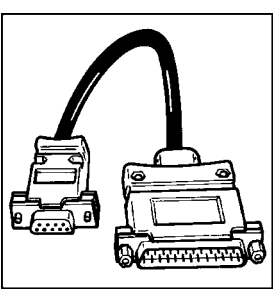


Dimensions (Scale Drawings)

All dimensions given in millimeters

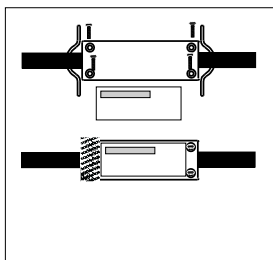


Accessories (Options)

		Order No.:
	Data interface port with 3-m cable (IP67, RS-485) and round connector (electrically isolated)	YDO 59 IS
	Data interface port with 3-m cable (IP67, RS-232C/RS-423) and round connector (electrically isolated)	YDO 58 IS
	Extension cable with round male and female connectors (IP65, 6 m)	YCC 01-ISM6
	Round female connector, IP65, type C091D, 12-contact, Amphenol	69 QC0011
	Round male connector, IP65, type C091D, 12-pin, Amphenol	69 QC0010
	Adapter cable, from round connector to PC, 25-pin D-Submini; length: 0.25 m (approx. 10 in.) (YDO58IS interface port required)	YCC 01-0017D2
	PC adapter cable, 25-pin D-Submini to 9-contact D-Submini; length: 0.2 m (approx. 8 in.) (YDO 52 IS interface port and YCC 01-0017D2 adapter cable required)	69 65619

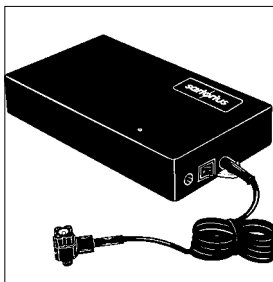
To order customized accessories or custom solutions, please contact the Sartorius "Fast Factory".

Order No.:



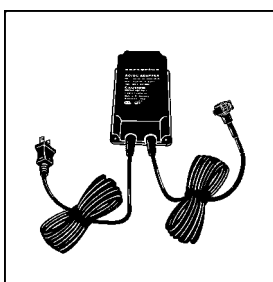
Stainless steel tag plate for metrological ID labels
(fastens to cable; required when weighing platform
is used for legal metrology in a weighing system)

YAS 01 IS



Adapter kit for DC power supply to
the weighing platform (without using an external
AC adapter or power supply)
IP67 cable gland (to be installed by an authorized
service technician only)

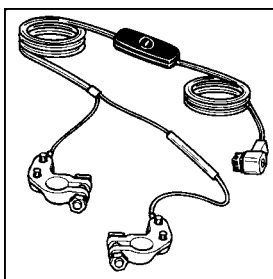
YAS 03 IS



IP65 AC adapter; 3-m primary cable,
1.5-m secondary cable; to be installed by an
authorized service technician only
(YAS03IS adapter kit required)

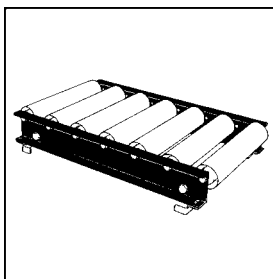
for 220 V 69 71899
for 110 V 69 71500

YRB 06 Z



Adapter cable for connecting the weighing
platform to a 12-V car battery or to a separate 12-V
power source using the terminal leads; cable length:
3.7 m (approx. 12 ft.); with integrated switch and
fuse, reverse battery polarity protection; must be
installed by an authorized service technician using
the YAS03IS adapter kit.

YRB 01 IS



Roller conveyor, with 7 rollers
Aluminum
Stainless steel

YRC 01 EDA

YRC 01 EDS

Calibration weight (1 · 10 kg, accuracy class F1)
(with weighing platforms verified for use in
legal metrology, the calibration weight is
used as a test weight only)

YCW 7138

Configuration diskette for the IS weighing
platform (PC, DOS), without interface cable

YAD 01 IS

Hanger for under-scale weighing

69EA0040

To order customized accessories or custom solutions,
please contact the Sartorius "Fast Factory".

Sartorius Weighing Technology GmbH

✉ 37075 Goettingen, Germany

🏠 Weender Landstrasse 94 - 108, 37075 Goettingen, Germany

☎ (+49/551) 308-0, 📠 (+49/551) 308-3289

Internet: <http://www.sartorius-mechatronics.com>

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Status: June 2011 Sartorius, Goettingen, Germany